PATENT COOPERATION TREATY

From the INTERNATIO	NAL SEARCHING AUTHORITY	PCT				
To: ISENBRUCK BÖSL HÖRSCHLER WICHMANN HUHN Attn. Wichmann, Hendrik		NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION				
81675 München GERMANY	Ass Sent uck Bösl Hörschler Wichmann Huhn, Patentanwälte Posttach 860 880 D-81635 München					
	19. Aug. 2004 26. O.J. O.S. PCT 22 First 26. 40. O.L. PCT 49	(PCT Rule 44.1) Date of mailing (day/month/year) 19/08/2004				
C62676PC	AA A . O . O . E . E . E . E . E . E . E . E		hs 1 and 4 below			
International application No PCT/EP2004/00316 Applicant		International filing date (day/month/year) 25/03/2004	вт НЭй			
CYTOS BIOTECHNOI	JOGY AG		B2 B3			
1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report, however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. 2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: \$\text{the protest together with the decision thereon has been transmitted to the international Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. \$\text{no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.} 4. Heminders. Shortly after the expiration of 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the writt						
European Pate NL-2280 HV R	340-2040, Tx. 31 651 epo ni.	Authorized officer Maria Brandt				

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 45.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added.
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 Claims 1 to 15 replaced by amended claims 1 to 11.
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	5 00710.4444
C62676PC		see Form PCT/ISA/220 il as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2004/003164	25/03/2004	26/03/2003
Applicant		
CYTOS BIOTECHNOLOGY AG		
This international Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	s report.
language in which it was filed, unit	international search was carried out on the ba ess otherwise indicated under this item.	
this Authority (Rul	search was carried out on the basis of a trans e 23.1(b)).	lation of the international application furnished to
b. X With regard to any nucleo	otide and/or amino acid sequence disclosed	in the International application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).	
3. Unity of invention is lack	king (see Box III).	
4. With regard to the title,		
the text is approved as sui	bmitted by the applicant.	
X the text has been establish	ned by this Authority to read as follows:	,
MELAN-A PEPTIDE ANALOG	UE-VIRUS-LIKE-PARTICLE CONJ	UGATES Polon
5. With regard to the abstract,		
X the text is approved as sui	bmitted by the applicant.	
the text has been establish may, within one month from	ned, according to Rule 38.2(b), by this Authori m the date of mailing of this International sear	ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.
6. With regards to the drawings,		
 a. the figure of the drawings to be presented. 	ublished with the abstract is Figure No.	
as suggested by the	• • •	•
	s Authority, because the applicant failed to sug	
	Authority, because this figure better characte	rizes the invention.
b. X none of the figures is to be	published with the abstract.	

International application No.

PCT/EP2004/003164

Box	ox No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)	
1.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claim invention, the international search was carried out on the basis of:	ed
	a. type of material	
	a sequence listing	
	table(s) related to the sequence listing	
	b. format of material	
	X in written format	
	X In computer readable form	
	c. time of filling/furnishing	
	contained in the international application as filed	
	filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search	
2.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been fill or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	ed
3.	Additional comments:	

International Application No PCT/EP2004/003164

a. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N7/04 A61K A61K39/00 A61K39/39 C12N15/11 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N A61K Documentation searched other than minimum documentation to the extent that such documents are included in the liekts searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data, EMBASE, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ^c Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. χ WO 01/16320 A (LUDWIG INST CANCER RES) 1,3-10,8 March 2001 (2001-03-08) 17,18, 44,46, 48-53. 62, 88-95, 97,98 Υ abstract 2,11-16. 19-43, 45,47, 54-61, 63 - 87,96example 3; sequences 6.7 example 6; sequences 11,13,14,16 page 38, line 20 - line 21 -/--X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the International "X" document of particular relevance; the claimed invention filling date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 11 August 2004 19/08/2004 Name and mailing address of the ISA Authorized office: European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Mundel, C Fax: (+31-70) 340-3016

International Application No PCT/EP2004/003164

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DRO ET AL)	1,3-10, 17,18, 44,46, 48-53, 62, 88-95,
	97,98 2,11-16, 19-43, 45,47, 54-61, 63-87,96
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IKE PARTICLES AS VACCINES" 2 (2002-07), n, line 3 - line , line 1 - line	1-98
n N	
TERIOPHAGE ERY AND EPITOPE 002 (2002-07),	1-98
particle e malaria RE PUBLISHING, 1997-11-01),	1-98
	4; example 3 19 IKE PARTICLES AS VACCINES" 2 (2002-07), n, line 3 - line n, paragraph 2 n TERIOPHAGE ERY AND EPITOPE 002 (2002-07), particle e malaria RE PUBLISHING, 1997-11-01),

International Application No
PCT/EP2004/003164

		PCT/EP2004/003164
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	1_:
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FEHR T ET AL: "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, no. 16, 4 August 1998 (1998-08-04), pages 9477-9481, XP002212229 ISSN: 0027-8424 the whole document	1-98
Y	OXENIUS A ET AL: "CpG-containing oligonucleotides are efficient adjuvants for induction of protective antiviral immune responses with T-cell peptide vaccines" JOURNAL OF VIROLOGY, THE AMERICAN SOCIETY FOR MICROBIOLOGY, US, vol. 73, no. 5, May 1999 (1999-05), pages 4120-4126, XP002964289 ISSN: 0022-538X abstract page 4121, left-hand column, line 26 - line 28 page 4125, left-hand column, line 45 - line 53	1-98
Y	US 2003/050268 A1 (BERG DANIEL J ET AL) 13 March 2003 (2003-03-13) the whole document table 1; sequence 950 table 2; sequence 1039 paragraph '0169!	1-98

Information on patent family members

International Application No
PCT/EP2004/003164

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
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Form FCT/ISA/210 (patent family ennex) (January 2004)